

X4DSP+ETH

4-CHANNEL BENCHMARK AMPLIFIER WITH DSP AND OPTIONAL DANTE™

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Powersoft **X4** innovates and evolves the concept of the amplification platform through the integration of a worldwide compatible three-phase power supply and a fully-featured DSP.

The complete digital audio signal management system based on ARM Cortex A-8 processor and TI C6000 DSP platform heralds new and innovative level of signal processing, providing routing and mixing, multi-stage equalization with raised-cosine, IIR and FIR filters, delay up to 2s in input processing and 100ms for time alignment, gain and polarity adjustment, crossover, peak limiters, TruePower™ limiters, and Active DampingControl™.

The power supply permits worldwide AC acceptance and direct connection to any regional power line configuration: it is suitable for Single Phase, Bi-Phase, or Three Phase operation from 85 VAC up to 440 VAC without the need for manual selection. True Three Phase load balancing is directly achievable by the unit without any complex load assignment in the power distribution system design.

MyPowersoft services are available for this product

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PRODUCT DETAILS

KEY FEATURES

TI C6000 DSP platform architecture

Control and monitoring through ArmoníaPlus

Dedicated Web App

Hardware monitor available for fast local diagnostics

Mains voltage and current measurements/display, real-time load impedance and output power measurement/display for each channel

Active DampingControl™ for cable compensation

Flexible routing/mixing provided by the internal 4x4 input/ output matrix, allows the user to mix and route analog and digital I/O

4 input channels with physical analog and digital AES3 connectors and optional 16-in/8-out redundant Dante™ connection provides maximum flexibility

Improved reliability thanks to the customizable input backup strategy that automatically switches input source in case of a signal failure

Complete user interface integrated into ArmoníaPlus

WiFi remote monitoring through mobile device

Non-boolean channel routing

Signal grouping for speaker routing

Innovative failure protection aimed at keeping the system on its SOA by detecting the power delivered to speakers compared to the power drawn from mains

Protection against potentially harmful signals: DC, VHF, and clipping

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Suitable for Single-Phase, Two-Phase or Three-Phase operation from 85 VAC up to 440 VAC, with automatic switching and balancing

Three-phase load balancing directly managed by the unit without the need for complex load assignments in the system design

Power Factor Correction PFC for low power consumption and compatibility with a wide range of voltages

Power limiters that eliminate the need for expensive power sequencers

SPECIFICATIONS

Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)
Nominal power requirement	100-240 V $\pm 10\%$, 50-60 Hz
Operating voltage	90 V – 264 V
Power consumption	Idle <100 W; Max <3000 W
Operating temperature range	0° – 35° C – 32° – 95° F
Thermal dissipation* 1/8 of max output power @ 8 ?	115 V
Thermal dissipation* 1/4 of max output power @ 8 ?	115 V
Output power per channel	5200 W @ 2 ? / 3000 W @ 4 ? / 1600 W @ 8 ?
Bridge mode	10400 W @ 4 ? / 6000 W @ 8 ?
Max unclipped output voltage @8 ?	175 Vpeak
Current	30 Apeak